

Title (en)

LABORATORY ROBOT AND METHOD AND REAGENT KIT FOR ISOLATING NUCLEIC ACIDS

Title (de)

LABOR-ROBOTER UND VERFAHREN UND REAGENZIENKIT ZUR ISOLIERUNG VON NUKLEINSÄUREN

Title (fr)

ROBOT DE LABORATOIRE, PROCEDE ET TROUSSE DE REACTIFS PERMETTANT D'ISOLER DES ACIDES NUCLEIQUES

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Application

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Abstract (en)

[origin: WO0110554A2] The invention relates to a laboratory robot comprising at least one robot arm which can be displaced within a predetermined working area and on which a gripping device (26) is arranged for grasping at least one functional unit that is to be moved by said robot arm. According to the invention, an orientating device (48) is additionally provided on the robot arm or on the gripping device (26). Said orientating device interacts with an opposed orientating device which is optionally provided on the functional unit in order to impart a predetermined fixed relative orientation to the functional unit and to the gripping device (26). The aim of the invention is to isolate nucleic acids out of a biological sample that comprises compartments containing nucleic acids, in particular, while using an inventive laboratory robot. To this end, negatively charged particles consisting of a polymer material and of a reagent, which is comprised of a mixture of a charged or neutral detergent and of an aliphatic alcohol, or which is comprised of an aqueous solution of at least one chaotropic salt and, optionally, of an aliphatic alcohol, are added to the sample. In addition, the particles are separated out from the salient solution in an appropriate manner, and the nucleic acids bound to the particles are optionally washed and detached from the same using an elution buffer, or the nucleic acids bound to the particles are directly used for subsequent methods, such as polymerase chain reactions (PCR).

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